



## MATERIAL SAFETY DATA SHEETS (MSDS) On-Line OSHA-Required Health And Safety Information!

### Section 1

#### MATERIAL SAFETY DATA SHEET # 97

#### Hercules Liquid Glug™ Drain Opener (for Bathroom)

Date Prepared: 01-Apr-98

Last Reviewed: 01-May-01

Meets OSHA 29 CFR 1910.1200

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### Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s), CAS Numbers)	OSHA PEL	ACGIH TLV	Other Limits	% Upper Bound Limits if SARA Reportable
Potassium Hydroxide (1310-58-3)	2mg/M <sup>3</sup> (dust)	2mg/M <sup>3</sup> (dust)	N/A	N/A
Sodium Hypochlorite (7681-52-9)	--	--	--	--

**HMIS Hazard Rating:** Health: 2 Flammability: 0 Reactivity: 2 Personal Protection: B

### Section 3 - Physical/Chemical Characteristics

<b>Boiling Point (°F):</b>	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	<b>Vapor Density (Air=1):</b>	<b>Vapor Pressure (mm Hg):</b>
212	1.10 to 1.15	N/A	N/A
<b>Melting Point (°F):</b>	<b>Evaporation Rate (Butyl Acetate=1):</b>	<b>Solubility in Water:</b>	
N/A	N/A	100 %	
<b>Appearance And Color:</b> Clear Water-like Liquid		<b>Odor:</b> Chlorine-like	

### Section 4 - Fire And Explosion Hazard Data

<b>Flash Point:</b>	<b>Flammable Limits:</b>	<b>LEL:</b>	<b>UEL:</b>
N/A	N/A	--	--

**Extinguishing Media:** As appropriate for surrounding fire

**Special Firefighting Procedures:**  
Non-flammable. Does not burn or support combustion

**Unusual Fire And Explosion Hazards:**  
May react with aluminum generating hydrogen which is flammable and/or explosive if ignited.

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## Section 5 - Reactivity Data

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<b>Stability:</b> Stable	<b>Conditions To Avoid:</b> None
<b>Incompatibility (Materials To Avoid):</b>	Do not mix with other household cleaners or aluminum.
<b>Hazardous Decomposition:</b>	Hydrogen chloride, chlorine or hydrogen gas is possible if mixed with certain other drain/toilet bowl cleaners.
<b>Hazardous Polymerization:</b>	Will not occur

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## Section 6 - Health Hazard Data

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<b>Routes of Entry:</b>	<b>Inhalation?</b> Yes/Primary	<b>Skin?</b> Yes/Primary	<b>Ingestion?</b> Yes/Secondary
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**Health Hazards:**  
Contact with skin, eyes, or mucous membranes causes burns.

<b>Carcinogenicity:</b>	<b>NTP?</b> NO	<b>IARC?</b> NO	<b>OSHA Regulated?</b> NO
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**Signs And Symptoms of Exposure:**  
Excessive inhalation of vapors can cause mouth and throat irritation.

**Medical Conditions Generally Aggravated By Exposure:**  
None known

**Emergency And First Aid Procedures:**  
EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes. SKIN: Remove contaminated clothing & shoes. Flush skin thoroughly with water. INGESTION: Do not induce vomiting. Get medical attention. Rinse the mouth thoroughly with cold water. Never give anything by mouth to an unconscious or convulsing person.

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## Section 7 - Precautions For Safe Handling And Use:

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**Steps To Be Taken In Case Material Is Released Or Spilled:**  
Small spill may be washed down drain. For large spills first contain spill and dilute with water. Neutralize with dilute acid before flushing to a drain.

**Waste Disposal Method:**  
Flush into sewer. If large quantities of liquid are involved pH adjustment may be required. Consult and conform to federal, state & local regulations.

**Precautions To Be Taken In Handling And Storing:**  
Store in cool, dry place. Keep separate from acids.

**Other Precautions:**  
None

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## Section 8 - Control Measures:

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<b>Respiratory Protection:</b>	In confined spaces or other circumstances where adequate ventilation cannot be assured use NIOSH approved respirator, positive pressure airline mask or self contained breathing apparatus.			
<b>Ventilation:</b>	<b>Local Exhaust:</b>	Adequate	<b>Special:</b>	None required
	<b>Mechanical:</b>	N/A	<b>Other:</b>	N/A
<b>Gloves:</b>	Rubber gloves if necessary			
<b>Eye Protection:</b>	Safety glasses or goggles			
<b>Other Protective Clothing:</b>	None normally required			
<b>Work/Hygienic Practices:</b>	Wash thoroughly after handling.			

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| [Home Page](#) |

| [MSDS](#) | [Wholesaler Info](#) | [Contractor Info](#) | [Homeowner & Industrial Info](#) |

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